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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/612,880	SONG, BYUNG SOO	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thuy V. Tran	2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment submitted on 11/18/2004.
2. ☒ The allowed claim(s) is/are 1,3-8 and 10-12.
3. ☒ The drawings filed on 7/7/03 with replacement sheets 11/18/04 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

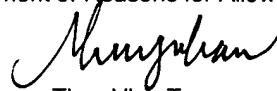
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|--|--|
| <ol style="list-style-type: none"><li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li><li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li><li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li><li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li></ol> | <ol style="list-style-type: none"><li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li><li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li><li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li><li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li><li>9. <input type="checkbox"/> Other _____</li></ol> |
|--|--|



Thuy Vinh Tran  
Primary Examiner  
Art Unit: 2821

### **DETAILED ACTION**

This is a response to the Applicant's amendment submitted on November 18<sup>th</sup>, 2004. In virtue of this amendment:

- Claims 2 and 9 are cancelled;
- Claim 12 is newly added; and thus,
- Claims 1, 3-8, and 10-12 are now presented in the instant application.

#### ***Allowable Subject Matter***

1. Claims 1, 3-8, and 10-12 are allowed.

#### ***Reasons for Allowance***

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A method of processing a video signal in a plasma display panel wherein the step of forecasting the pseudo contour noise includes detecting a shift direction and a shift speed of a picture and a gray level value of data using data at the  $(n+1)^{th}$  and  $n^{th}$  fields (wherein  $n$  is an integer), thereby forecasting the pseudo contour noise with the aid of the detected shift direction and speed of the picture and the detected gray level value of data, in combination with the remaining claimed limitations as called for in independent claim 1 (claims 3-7 are allowed since they are dependent on claim 1);
- A video signal processing apparatus for a plasma display panel wherein the equalizing pulse supplier comprises (1) an operation detector for receiving the  $(n+1)^{th}$  and  $n^{th}$  field data to detect a shift direction and a shift speed of a picture and a gray level of the  $n^{th}$  field data, (2) a pseudo contour amount forecaster for

forecasting an amount of the pseudo contour noise to be generated from the panel using the shift direction and the shift speed of a picture and the gray level value of the nth field data, and (3) a compensator for receiving the amount of the pseudo contour noise to calculate an equalizing pulse to be compensated and supply a higher compensated equalizing pulse or a lower compensated equalizing pulse than the calculated equalizing pulse, in combination with the remaining claimed limitations as called for in independent claim 8 (claims 10-11 are allowed since they are dependent on claim 8); and

- A method of processing a video signal in a plasma display panel wherein the equalizing pulses having the first gray level and the second gray level are supplied such that they are alternated on a basis of at least two signals of a pixel signal, a horizontal synchronizing signal and a vertical synchronizing signal, in combination with the remaining claimed limitations as called for in independent claim 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

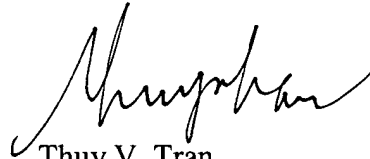
### ***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thuy V. Tran  
Primary Examiner  
Art Unit 2821

12/08/2004